

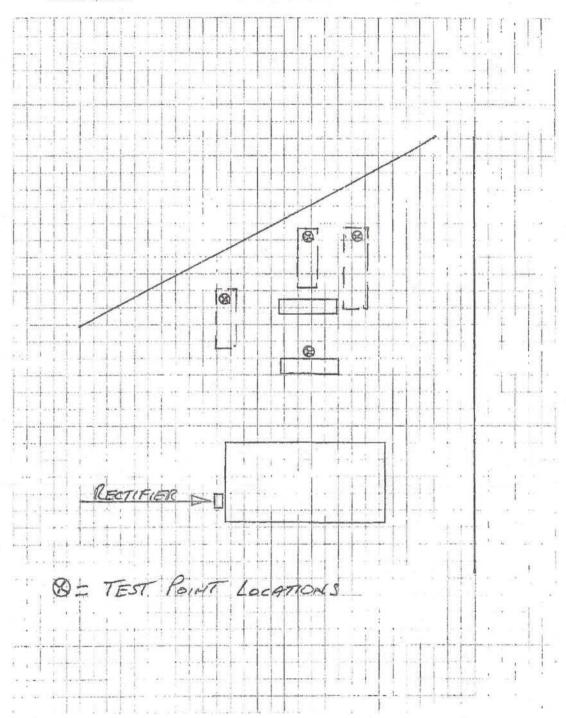
Underground Storage Tank Impressed Current Cathodic Protection Evaluation Checklist

1 1	7.74	I. US	ST Fa	cility	,	California S		II. U	ST Owne	r	
Facility Compl	liance 1	Tag #:					Name:				
UBI: 391-001		-					Address:				
							City:		State:	ZIP:	
Facility Name:	SMIT	TY'S		- 000			Phone:				
Address: 102	No. of the last	Carlotte Street	Н					[]].	CP Tester		
City: TOPPEN	10111						Tester's Name: 2	ZACH SA	THER		
County: YAKI							Company Name: SERVICES CO.			MENTAL	
State: WA							Address: FO BO	X 2049			
ZIP: 98948			v == -			E .	City: PORT TOW	NSEND	State: WA	ZIP: 98368	
Phone:		0					Phone: (360) 385	-4221			
					33,1117		Certification Type	: ICC			
							Certification Num	ber: 1079	309-(14	Exp: 10-11	
			IV.	. Cat	hoc	lic Protect	ion Tester's Ev	/aluatio	n		
New 7	Pass Fail	by th	e Wasi	hingto	n Sta	ate Undergrou	luate whether cathound Storage Tank R tionally recognized	Regulation	s, were in a	cordance with a	
CP Tester's Si	gnature	e:			A.	1		Date CP Survey Performed: . 2/12/08			
THE WAY TO THE WAY TO SERVE THE WAY					V.	Retrofith	r Repair Design		0	-	
I have attached Checklist.	d cople	s of the	retrofit	Vrepai	r des	sign and of th	uried or submerged e Underground Stor	rage Tank	Retrofit and	l Repair	
	Sand Sales Francisco						Certification Numi		-		
Company Nam	ie:	-	-		-		Certification (4um)	061.			
Corrosion Expe	ert's Si	gnature:		100	0.3	Carolin British	felic to Frields	Date:			
Continuity Test		N DA	ss 🗆		Urr		cable to Evaluate show continuity us		nroved testin	n method	
Neg. 850	x	T R	Pass Fall	Tan	ks	A negative	polarized potential	of at least	850 mV rela	ative to a	
Instant Off	x		Pass Fail	Pipi	ng	Potential).	opper-copper sulfat	le releien		(mstant On	
100 mV Pol.	X		Pass Fail	Tan	ks		of 100 mV cf catho				
	x	10	Pass Fail	Pipi	-		d a stable reference			ine electrolyte	
		- 1	/II.Ac				a Result of this				
NONE					W VI	THE VICE IN NO	on is adequate. No				
RETEST					-	The second secon	on may not be adec				
RETROFIT	REPA	IR and	RETES	ST	Cath	odic Protecti	on is not adequate.	Retrofitti	ng or Repair	ing is necessary.	
Remarks (Inclu	ae typs	e or gea	r, ex:	IVILII(I-I	mete	r): MUII MI	ETER PORTABLE	Cocoso			

		V	711. 1	mpressed	THE RESERVE AND ADDRESS OF THE PARTY OF THE	AND PERSONAL PROPERTY AND ADDRESS OF THE PARTY		9			
Rectifier Manufacture		GOODA	ALL		4.00	tifier Moo nber	tel				
Rated DC Ou	ıtput	72 12	Vol Am		III THE THE	tifier Seri nber	al				
Rectifier "As	Found	l" Data									
(*) AC Input				Volts	DC	Voltage o	n Panel	Meter	69.3	Volts	
(*) AC Step-	Down V	oltage		_ Volts	DC Voltage on Rectifier Output Terminal				70.7	Volts	
Tap Settings	15	C		F	DC	Amps on	Panel N	leter	1.5	Amps	
	Seco	ndary Ta	ps	Hz	(*)	Shunt R	ating		50MV-10A		
(*) Cycles						7.5	mV				
	DC C	Output	H2	Z	DC	Amps fro	Reading	1.5	Amps		
Rectifier "A: (*) AC Input				Volts	DC	Voltage of	on Panel	Meter		Volts	
(*) AC Step-				Volts	DC Voltage on Rectifier Output Terminal					Volts	
Tap Settings		C-		F	DC	Amps on	Panel M	leter		Amps	
	Seco	ndary Ta	ps	Hz	(*)	Shunt R	ating			_	
(*) Cycles	DO (2.6	11.		(*) Shunt Measurement					_ mV	
	DCC	Output	F12	Z	DC	Amps fro	m Shun	Reading		Amps	
(Comple	te only if				s can be	taken ir	idepender		31	
Anode#	1	2	3	4	5	6	7	8	9	10	
Volts Amps					-					-	
Allips [
	, , , ,	- 1	-		s Left	management and revised security	1 7	8 1	9 [. 10	
Anode #	1	2	3	4	5	6_	7	0	9	. 10	
Amps											
	Remari	ks (Desc	ribe an	w modific	ation	s that we	re mada	to the CF	Syste	m)	
		time from many	8 4 300 MF . 34 6 7	A. F. W. W. W. Street, Street, St.	Service and		The state of the s			and the same of	

Structure A	Structure "B"	Point 'A' t	to Point	Structu Fixe Voltage	ıre A"	Structure Fixed Voltage -	"B"	Point to I Fixed V	Point or ollage	Р	ass or Fail?	Method and Standard Used (e.g RP-0285, R051)
TANK RISER	TANK BOTTOM	Location		941		946		.005		X	Pass Fail	RP0285
TANK	TANK							.003		X	Pass	
RISER TANK	BOTTOM	-	-	927		924		.003			Fail Pass	RP0285
RISER	BOTTOM	-		889		894		.005		8	Pass	RP0285
And the state of											Fail Pass Fail	21122222
								4			Pass Fail	72.1
											Pass Fail	
											Pass Fail Pass	
		-			-		-			8	Fail	
											Fail Pass Fail	
		†									Pass Fail	
,								T A			Pass Fail	
		(II. Impres			0.466	adta Du		Can Cue	dama Du		Pass Fail	
	Contact Point	Half Cell Location	Local	Voltage	Loca	Voltage	Loc	al Voltage	Voltage		Pass or Fail?	Method are Standard
Structure	TANK	Locuiton	110							91		
		manhole	946		925		54		Change 379		⊠ Pass ☐ Fail	RP0285
	TANK BOTTOM	manhole	946					6		ĮĮ.	☑ Pass	-
TANK	TANK BOTTOM TANK BOTTOM				925		54	8	379	The state of the s	Pass Fail Pass Fail Pass Fail Fail	RP0285
TANK	TANK BOTTOM TANK	manhale	-,924		925		54 49	8	379 375	The state of the s	Pass Fail Pass Fail Pass Fail Pass Pass Fail Pass	RP0285
TANK	TANK BOTTOM TANK BOTTOM dispense	manhale manhole	924 894		925 873 840		54 49 50	8	379 375 339	Samuel Stand Stand Stand Control Stand Sta	Pass Fail	RP0285 RP0285 RP0285
TANK	TANK BOTTOM TANK BOTTOM dispense	manhale manhole	924 894		925 873 840		54 49 50	8	379 375 339	Send Send Send Send Send Send Send Send	Pass Fail	RP0285 RP0285 RP0285
TANK	TANK BOTTOM TANK BOTTOM dispense	manhale manhole	924 894		925 873 840		54 49 50	8	379 375 339	Speed Stand	Pass Fail	RP0285 RP0285 RP0285
TANK	TANK BOTTOM TANK BOTTOM dispense	manhale manhole	924 894		925 873 840		54 49 50	8	379 375 339	Special State of Stat	Pass Fail	RP0285 RP0285 RP0285
TANK	TANK BOTTOM TANK BOTTOM dispense	manhale manhole	924 894		925 873 840		54 49 50	8	379 375 339	Special States States County County States S	Pass Fail	RP0285 RP0285 RP0285
TANK	TANK BOTTOM TANK BOTTOM dispense	manhale manhole	924 894		925 873 840		54 49 50	8	379 375 339	Special Result State Sta	Pass Fail	RP0285 RP0285 RP0285
TANK	TANK BOTTOM TANK BOTTOM dispense	manhale manhole	924 894		925 873 840		54 49 50	8	379 375 339	Special Section of Section Control Con	Pass Fail	RP0285 RP0285 RP0285
TANK	TANK BOTTOM TANK BOTTOM dispense	manhale manhole	924 894		925 873 840		54 49 50	8	379 375 339	Seal Seal Seal Seal Seal Seal Seal Seal	Pass Fail	RP0285 RP0285 RP0285

XIII. UST Site Plan. Diagram the UST System, Including tanks, piping, and dispenser locations, approximate scale, and any other notable structures/physical features. Indicate north with arrow. Include the cathodic protection test locations used during this testing. The test points must be easily identifiable, so that testing can be reproduced and your results verified.



KIV. Washington State Department of Ecology 60-Day Record of Rectifier O	Deration
--	----------

	UST Owner		UST Facilit			
Name:			Name: SMIT	TY'S	7/	
Address:				02 E. TOPPENISH		
City:	State:	ZIP:	City:	State:	ZIP:	

Rectifier Manufacturer	GOODALL.	Rectifier Model Number	
Rated DC Output	72 Volts 12 Amps	Rectifier Serial Number	

What is the "as designed" or most recently recommended recifier range?

VOLTS:	65 TO 75	AMPS:	.5 TO 2.0
			1

!!If Volt/Amp readings recorded below are out of recommended ranges, contact your service provider.!!

Date Inspected	Rectifier Turned On?	Tap Settings	Volts	Amps	Hour Meter	Inspector	Comments
	-				-		
	-			2000000			
							74-77-17-
							<u> </u>
		TH					
		F2-411					
			1-				

- IX. Individual Anode Data. Complete only if Anode Measurements can be taken independently.
- X. Remarks. Describe any modifications that were made to the CP System.
- XI. Impressed Current Cathodic Protection System Continuity Survey. Necessary to show Impressed Current System is protecting structures that are intended to be protected.
 - a. Compare various structures within the UST System (Structure Λ and B) using a "Fixed Cell" Technique or "Point to Point" Technique depending on the standard used. NACE recommends "Fixed Cell", STI recommends either "Fixed Cell" or "Point to Point".
 - If the Voltage Difference (between Structure A and B) is less than 10 mV, Structures are likely continuous.

Example:

Structure "A"	Structure "B"	Point "A" to Point "B" or Fixed Cell Location >30"	Structure "A" Fixed Voltage >30'	Structure "B" Fixed Voltage >30'	Point to Point or Fixed Voltage Difference	Pass or Fail?	Method and Standard Used (e.g. RP-0285, R051)
Tank Bottom	Vapor Recovery	NE Corner (30')	-876 mV	-843 mV	33 mV	☐ Pass ☑ Fail	"Fixed" R051

- XII. Impressed Current Cathodic Protection System Survey. Readings of the structures' potentials.
 - a. Structure: Description of Structure (i.e. Tank #1).
 - b. Contact Point: Description of Contact point (i.e. Tank Bottom).
 - c. Half Cell Location: Location of Placement of Half Cell.
 - d. Local Voltage (On): Voltage measured as current is impressed on system.
 - e. Local Voltage (Instant Off): Voltage measured during interruption cycle.
 - f. Local Voltage (Depolarized): Voltage measured after structure has depolarized
 - g. Voltage Change: Instant Off subtracted from the Depolarized Potential (100mV Polarization Criteria).
 - h. Pass or Fail: Documentation of whether or not system passes.
 - Method and Standard Used: Use one of the criteria and document standard applied;
 - 1) 850 "Instant Off"
 - 2) 100 mV Polarization

Example:

Structure	Contact Point	Half Cell Location	Local Voltage (ON)	Local Voltage (Instant Off)	Local Voltage (Depolarized)	Voltage Change	Pass or Fail?	Method and Standard Used
UST #1	Tank bottom	Crack in NE corner of tank nest	1020mV	-920 mV			☑ Pass ☐ Fail	-850 I/O RP-0285
UST #2	Tank bottom	Crack in NE corner of tank nest	-948 mV	-800 mV	-680 mV	120 mV	☑ Pass	100 mV Pol RP-0285

- XIII. UST Site Plan. Diagram the UST system.
- XIV. Ecology 60-Day Record of Rectifier Operation.
 - a. Fill out UST owner and UST Facility information.
 - Fill out Rectifier Manufacturer, Model and Serial number, and Rated DC output. Provide most recently recommended rectifier range in Volts and Amps.
 - c. At Least Every 60 Days Inspect Rectifier Operation: Fill out Rectifier Log with date of inspection, whether Rectifier is turned on at time of inspection, Tap Settings, Volts, Amps, Hour Meter reading (if available), and any other relevant comments. Inspector initials log.